

Name _____

Percent of a Quantity

Homework

You can use ratios to write a percent of a quantity.

Find 0.9% of 30.

Step 1 Write the percent as a rate per 100.

$$0.9\% = \frac{0.9}{100}$$

Step 2 Multiply by a fraction equivalent to 1 to get a whole number in the numerator.

$$\frac{0.9}{100} \times \frac{10}{10} = \frac{9}{1,000}$$

Step 3 Write the multiplication problem.

$$\frac{9}{1,000} \times 30$$

Step 4 Multiply.

$$\frac{9}{1,000} \times 30 = \frac{27}{100} = 0.27$$

So, 0.9% of 30 is 0.27.

Find the percent of the quantity.

1. 8% of 90

2. 20% of 80

3. 95% of 340

4. 33% of 28

5. 200% of 8.5

6. 125% of 70

7. 0.25% of 120

8. 0.4% of 50

9. 45% of 70

10. 155% of 30

11. 75% of 124

12. 0.8% of 1,000

13. James correctly answered 85% of the 60 problems on his math test. How many questions did James answer correctly?

14. A basketball player missed 25% of her 52 free throws. How many free throws did the basketball player make?

Extra Credit